

In re Application of:

Hitoshi SUGIMOTO, et al.

Application No.: 08/811,234

Filed: March 3, 1997

For: INK-JET RECORDING APPARATUS
AND INK-JET RECORDING METHOD
USING INKS OF DIFFERENT
DENSITIES, AND RECORDED ARTICLES

Director, the Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith is a Supplemental Response and Submission of English
Translation of Priority Documents in the above-identified application.

☒ No additional fee is required.

The fee has been calculated as shown below

CLAIMS AS AMENDED						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE
TOTAL CLAIMS	76	MINUS	76	= 0	x \$9 \$18	\$ 0.00
INDEP. CLAIMS	11	MINUS	11	= 0	x \$42 \$84	\$ 0.00
Fee for Multiple Dependent claims \$140°/\$280						
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT---						\$ 0.00

☐ °Verified Statement claiming small entity status is enclosed, if not
filed previously.

☐ A check in the amount of \$_____ is enclosed.

Docket No. 03500.010048.1

Examiner: C. Hallacher

Group Art Unit: 2853

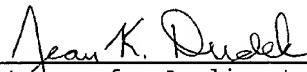
Date: March 27, 2002

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- ☐ Charge \$_____ to Deposit Account No. 06-1205. A duplicate copy of this sheet is enclosed.
- ☒ Any prior general authorization to charge an issue fee under 37 C.F.R. 1.18 to Deposit Account No. 06-1205 is hereby revoked. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 06-1205. A duplicate copy of this paper is enclosed.
- ☐ A check in the amount of \$_____ to cover the fee for a _____ month extension is enclosed.
- ☐ A check in the amount of \$_____ to cover the Information Disclosure Statement fee is enclosed.
- ☒ Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our address given below.

Respectfully submitted,



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03500.010048.1



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*Suppl. Response
#52
#1,602*

In re Application of:)
Hitoshi SUGIMOTO, et al.) Examiner: C. Hallacher
Appln. No.: 08/811,234 /) Group Art Unit: 2853
Filed: March 3, 1997)
For: INK-JET RECORDING)
APPARATUS AND INK-JET)
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INKS OF DIFFERENT) March 27, 2002
DENSITIES, AND RECORDED)
ARTICLES)

Director, The Commissioner for Patents
Washington, D.C. 20231

SUPPLEMENTAL RESPONSE AND
SUBMISSION OF ENGLISH TRANSLATION OF PRIORITY DOCUMENTS

Sir:

Supplemental to the Amendment filed February 8, 2002
and in response to the Office Action mailed February 27, 2002,
Applicants respectfully submit the following remarks.

REMARKS

Reconsideration and allowance of this application are
respectfully requested.

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Claims 1, 4-14, 17-22, 25-30, 33-35 and 37, 39, 41-53, 55-61 and 63-89 are pending in this application, with Claims 1, 14, 21, 30, 37, 53, 61, 63, 74, 85 and 87 being independent.

The Office Action dated February 27, 2002 notes that translations of the foreign priority documents are necessary to overcome the date of the Gotoh et al. reference. Applicants submit herewith sworn English language translations of Japanese Priority Document Nos. JP 5-121480 (filed May 24, 1993) and JP 5-157582 (filed June 28, 1993), thus perfecting Applicants' Claim to Priority. A Claim to Priority and certified copies of these priority documents were filed in the present application on October 20, 1994.

Claims 85-89 were added in the Amendment dated February 8, 2002. The Office Action dated February 27, 2002 requests reasons as to why Claims 85-89 are allowable over the art of record. Applicants respond as follows.

The ink-jet recording apparatus recited in Claim 85 is provided with an ink-jet unit with which different ink discharge port groups are integrated, the different ink discharge port groups corresponding to each of inks different in coloring material. The apparatus further comprises an ink cartridge

containing inks to be supplied to the ink-jet unit, and which is provided with a plurality of ink holding areas for containing inks different from each other in coloring material. Claim 87 is of comparable scope, being directed to an ink cartridge corresponding to an ink-jet unit. In Applicants' view, the cited references do not teach or suggest the invention of Claims 85-89.

Masumoto et al. discloses a plurality of inks having different densities of the same color series. Sekiya discloses an ink cartridge provided with a plurality of ink-containing chambers. Sekiya, however, is silent about what kind of inks should be contained within each of the plurality of chambers.

Applicants submit that Sekiya and Matsumoto et al. do not teach or suggest that the ink cartridge as described above is used in correspondence with an ink-jet unit as described above; or that the ink cartridge is provided with a plurality of ink-holding areas for containing inks different in coloring material density.

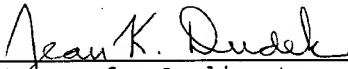
Applicants therefore conclude that the present invention, as recited in each of independent Claims 1, 14, 21, 30, 37, 53, 61, 63, 74, 85 and 87 is patentably defined over the cited references. The dependent claims, including Claims 86 and

89, should also be deemed allowable for the same reasons as their respective independent claims, and for defining additional patentable features. Individual consideration of the dependent claims is requested.

Applicants submit that the application is in condition for allowance.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should be directed to our address listed below.

Respectfully submitted,



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